

Claims

1. A linear motion engine comprising:

a plural number of engine cylinders in pairs laid out in two opposing rows of left and right;

5 a slider to which each of the rods of the pistons of cylinders shares a common linkage, wherein the slider being forced to slide left and right on a guide rail by the operation of the pistons, said guide rail being arranged substantially midway between the two cylinder rows; and

10 a flywheel which restricts the stroke length of pistons at each stroke via the linkage of a crank's eccentric shaft to a lengthwise sliding slot of the slider and assists the directional changeover of the slider's motion;

wherein said engine produces power output by the strokes of intake, compression, combustion, and exhaust.

2. The linear motion engine according to Claim 1, wherein the each stroke length of the pistons in cylinders equals to the scope of the rotation track of the eccentric shaft of the crank linked to the lengthwise sliding slot of the slider.